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☐ 1. Document ID: DE 3416004 A1

L3: Entry 1 of 2 File: EPAB Oct 31, 1985

PUB-NO: DE003416004A1
DOCUMENT-IDENTIFIER: DE 3416004 A1
TITLE: Process for producing a nonwoven with a perforated structure and calender for carrying out the process

PUBN-DATE: October 31, 1985

INVENTOR-INFORMATION:

NAME	COUNTRY
SIEGERS, HANS-PETER	DE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HENKEL KGAA	DE

APPL-NO: DE03416004
APPL-DATE: April 30, 1984

PRIORITY-DATA: DE03416004A (April 30, 1984)

US-CL-CURRENT: 264/175
INT-CL (IPC): D06C 15/02; D04H 1/44
EUR-CL (EPC): D04H001/54

ABSTRACT:

In order, in a process for producing a thermoplastic nonwoven with a perforated structure, to combine the perforation of the nonwoven with the consolidation of the nonwoven, a non-consolidated nonwoven (7) is fed to a nonwoven calender (1) having an engraving roller (2). The calender rollers (2, 3) are heated to a temperature sufficient for melting the thermoplastic nonwoven material and are pressed together with a pressure sufficient for the complete pinching off of the nonwoven material at the engraving web edges.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Clip Img | Image

☐ 2. Document ID: DE 3416004 A

L3: Entry 2 of 2 File: DWPI Oct 31, 1985

DERWENT-ACC-NO: 1985-277453
DERWENT-WEEK: 198545

TITLE: Perforated thermoplastic fibre felting mfg. - uses heated gravure and smooth roller to melt out perforations

INVENTOR: SIEGERS, H P

PRIORITY-DATA: 1984DE-3416004 (April 30, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3416004 A	October 31, 1985		012	

INT-CL (IPC): D04H 1/44; D06C 15/02

ABSTRACTED-PUB-NO: DE 3416004A
BASIC-ABSTRACT:

Two heater calender rollers, rotating at the same surface speed carry the unfixed felting of thermoplastic fibres between them. The fibres in the press zone are melted by the roller heat. As the material is drawn off from the between the rollers, the linear pressure on the molten sections draws them clear of the projections into the spaces of the gravure roller where fibre material has been squeezed into shape.

The mechanical strength of the felting material is increased by extending the angle passed round at the gravure roller at the exit of the roller gap. The perforation size is enlarged by increasing the draw forces at the exit of the calender.

USE/ADVANTAGE - The technique is for mfg. a structured felting of thermoplastic fibres, giving an arrangement of surface recesses for the perforations. /3